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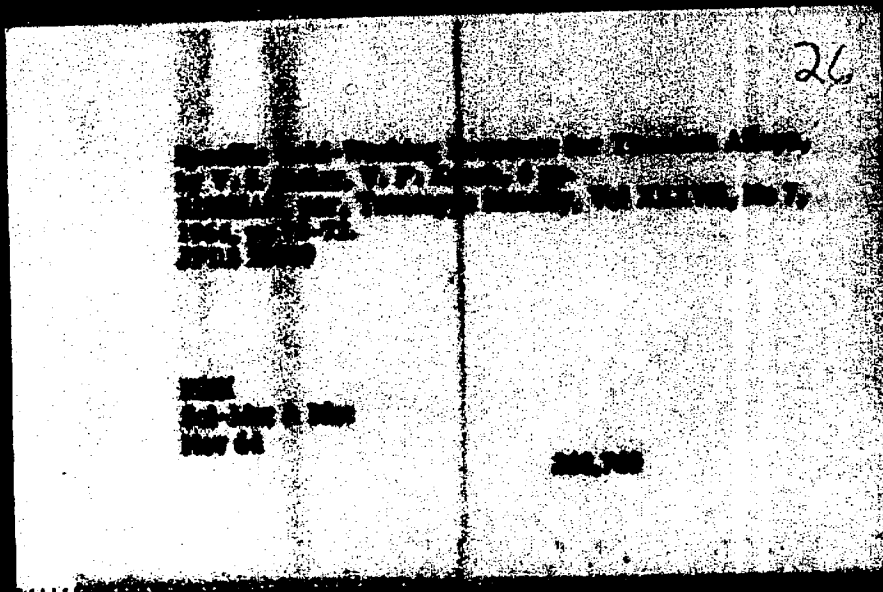
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tests, *Perturbation theory, Nonlinear systems.

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differential equation $\ddot{x} + f(x, \dot{x})\dot{x} + bx + cx = 0$, (1)
which is equivalent to $\dot{x} = y$, $\dot{y} = z$, and $\dot{z} = -f(x, y)z$
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